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## **CLAIMS**

What is claimed is:

1. A communication method for use between a local modem and a host while said local modem is in communication with a remote modem through a central office, said method comprising the steps of:

receiving an alert signal from said central office indicating an incoming call; acknowledging said alter signal;

notifying said remote modem of a modem-on-hold state;

collecting caller identification received from said central office;

informing said host of said alert signal;

receiving an in-band caller identification request from said host for said caller identification;

transmitting said caller identification to said host using an in-band caller identification message; and

receiving an in-band answer request from said host to answer said incoming call.

- 2. The method of claim 1 further comprising the step of receiving a hold acknowledgement from said remote modem in response to said notifying step.
- 3. The method of claim 2, wherein said hold acknowledgment includes a hold time, and wherein said method further comprising the steps:
- 20 receiving an in-band hold time request from said host; and transmitting said hold time to said host using an in-band hold time message.
  - 4. The method of claim 1 further comprising the step of requesting said remote modem to enter said modem-on-hold state.

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- 5. The method of claim 1, wherein said step of informing uses a ring signal to inform said host of said alert signal.
- 6. The method of claim 1, wherein said step of informing uses an in-band ring message to inform said host of said alert signal.
  - 7. The method of claim 1 further comprising the steps of:

receiving a disconnect reply from said remote modem in response to said notifying step; and

transmitting a disconnect request to said remote modem after said host informs said local modem of its desire to answer said incoming call.

8. A local modem in communication with a host, said local modem further in communication with a remote modem through a central office, said local modem comprising:

an alert signal detector capable of detecting an alter signal from said central office indicating an incoming call;

a processor controlling a host receiver, a host transmitter, a modem receiver and a modem transmitter, said processor having an in-band controller;

wherein said processor acknowledges said alter signal, said modem transmitter notifies said remote modem of a modem-on-hold state, said processor collects caller identification received by said modem receiver from said central office, said processor informs said host of said alert signal, said in-band controller receives an in-band caller identification request via said host receiver from said host, said in-band controller transmits said caller identification to said host using an in-band caller identification message via said host transmitter, and said in-band controller receives an in-band answer request via said host receiver from said host to answer said incoming call.

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- 9. The local modem of claim 8, wherein said processor receives a hold acknowledgement via said modem receiver from said remote modem in response to said modem-on-hold state notification.
- 10. The local modem of claim 9, wherein said hold acknowledgment includes a hold time, and wherein said in-band controller receives an in-band hold time request via said host receiver from said host, and said in-band controller transmits said hold time to said host using an in-band hold time message via said host transmitter.
  - 11. The local modem of claim 8, wherein said processor requests said remote modem to enter said modem-on-hold state.
- 10 12. The local modem of claim 8, wherein said processor uses a ring signal to inform said host of said alert signal.
  - 12. The local modem of claim 7, wherein said processor uses an in-band ring message to inform said host of said alert signal.
  - 14. A computer program product for providing communication between a local modem and a host while said local modem is in communication with a remote modem through a central office, said computer program product comprising:

code for receiving an alert signal from said central office indicating an incoming call;

code for acknowledging said alter signal;

code for notifying said remote modem of a modem-on-hold state;

code for collecting caller identification received from said central office;

code for informing said host of said alert signal;

code for receiving an in-band caller identification request from said host for said caller identification;

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code for transmitting said caller identification to said host using an in-band caller identification message; and

code for receiving an in-band answer request from said host to answer said incoming call.

- The computer program product of claim 14 further comprising code for receiving a hold acknowledgement from said remote modem in response to said notifying said remote modem.
  - 16. The computer program product of claim 15, wherein said hold acknowledgment includes a hold time, and wherein said computer program product further comprising:

code for receiving an in-band hold time request from said host; and code for transmitting said hold time to said host using an in-band hold time message.

- 17. The computer program product of claim 14 further comprising code for requesting said remote modem to enter said modem-on-hold state.
- 18. The computer program product of claim 14, wherein said code for informing uses a ring signal to inform said host of said alert signal.
- 19. The computer program product of claim 14, wherein said code for informing uses an in-band ring message to inform said host of said alert signal.
- 20. The computer program product of claim 14 further comprising:

  code for receiving a disconnect reply from said remote modem in response to said

  notifying said remote modem; and

code for transmitting a disconnect request to said remote modem after said host informs said local modem of its desire to answer said incoming call.